

Catalyst for preparing methyl mercaptan from synthesized gas containing high concentration of hydrogen sulfide

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Abstract of CN1207958

The catalyst has one carrier of SiO₂, gamma-Al₂O₃ or TiO₂ and its active component Mo-S-K radical is transformed from precursor K₂MoS₄ or (NH₄)₂MoS₄+K₂CO₃. Its transition of RE metal oxide promoter are mainly metal oxide of Mn, Fe, Co, Ni, La, etc. Under the conditions of 295 deg.c temperature, 0.2MPa pressure, volume proportion of high-sulphur synthesis gas CO-H₂-H₂S being 1 to 2 to 0.1-1, and 2000-5000/hr space velocity, the catalyst can result in methyl mercaptan space-time yield of 0.37 g/hr each gram of catalyst and selectivity of 98.6%.

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